SBR No. 000004/17-18
DATED 31-10-17

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

EE/ELE/Y/BR No. 000004/17-18

No. 1st & Final Bill

Date..... 2010 Dt. 31-10-17

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional / Sub Divisional Cash Book Voucher No..... Dated.....

Job Code :-003-17-000041

Schedule Docket No. Head of Account : **P -1771**

D.R.No.

Name of Work:- Modefied Estimate for Providing Street Lights and Timers in Ward no 03.

Name of Contractor and Full Address: I Pradeep Kumar, S/o. prop. of m/s. Ganga Enterprises.

Reference to Agreement No:EE/Ele/YZ/WO/ 36 /17-18 Date:15/7/2017

Certified that the measurements were taken by me on 26/10/17 and recorded of Pages 31545 to 558 of measurement Book No. 3116/17-18 and that the work is satisfactorily executed.

For GANGA ENTERPRISES

Contractor

K.N. Balaraj
Officer-in-charge of work

Certified that the measurement were taken by me on 26/10/17 and found correct. The work is satisfactorily executed.

Proprietor

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele)
BBMP, Bangalore

Sub-Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within	Bill =	219620700
2) Deduct amount to be held in reserve being .....percent Rs.....	IT 1%	2196200
3) " Balance	SGST 1%	2196200
4) Deduct Payment:	CGST 1%	2196200
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount	LWC 1%	2196200
adjusted towards cash advance recovery of	CBFO,1%	219600
b) Payments Now made: cost store or other material supplied. recovery of amount creditable to this/other work. Amount paid on this bill Cheque / Cash.	deductions=	900HH00
	Cheque =	21.06,16300
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.		
7) Net amount due to or from Contractor unadjustments items.		
8) Advance to Contractor for materials brought to site (as detailed) within.		
9) Value of Government materials supplied.		
Total amount adjusted -		

For GANGA ENTERPRISES

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands) (For use in the Office)

Witness

1.

2.

For GANGA ENTERPRISES

Stamp

Proprietor

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

P1771 ಪಾಯಿ ಬಾಬ್ತಿನಲ್ಲಿ ಖರ್ಚುಹಾಕಿ

ರೂ: 219620700 ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ

ರೂ: 21,06,163=00 ನಿರ್ವಹಿಸಲಾಗಿದೆ

ರೂ: 90,000 ಠೇವಣಿ ಮಾಡಿದೆ

ಕಿ.ಇ. ಅಧೀಕ್ಷಕರು ಕಾ.ಪಾ.ಅ.(ವ) ಯಲಹಂಕ ವಲಯ

Sl no	Description of item	Unit
	Name of Work : Modefied Estimate for Providing Street Lights and Timers in Ward no 03.	
1	Supply and erection of ……Mtr RCC Pole including earth work etc,. complete as per the	Nos
2	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle	Each
3	Wiring for lighting/power circuit using one of PVC insulated 1100v grade stranded **Aluminium** unsheathed wire single core/multi core cable in open or consealed system of wiring. a)4 sqmm.	Each
4	Supplying of 1.1kv grade Aerial Bunched cable stranded & compacted Aluminium Phase conductor and Stranded Messenger conductor with all aluminium alloy, Phase conductor is insulated with XLPE compound insulated Messenger with specified IS - 14255:1995 & confirming to GTP of group A. 2 X 25 + 1 X 25 SQ.MM	Per Mtr
5	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Per Mtr
6	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility.300mmx450mmx214mm	Nos
7	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.f)40-63 Amps SP, Group A	Each
8	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	Each
9	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	Per Mtr
10	Supplying and fixing phylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws	Sqcm
11	Open Conduit Systeme: Supplying heavy gauge PVC conditpipe,,,,,,,,,,, dia confirming to IS 2509 with suitable size bends,junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plug incase of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. c)25mm dia 2mm thick	Mtrs
12	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat… with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. A)40x40x6mm.	Mtrs
13	Micro processor based electronic timer consisting of Display Unit(LCD), built in Real Time Clock (RTC) and keypad with option to operate relay/contactor in programmable mode (pre-defined ON/OFF time) or astronomical mode (based on sunset and sunrise depending on the latitude and longitude of the location of installation of Switch) or based on Intensity of natural light (lux level using IR sensor), built in software to select the mode of operation by the user	Nos
14	Supplying and stringing of ACSR Conductor (6/2.59mm Al +1/2.59mm Steel).	Mtrs

Previous		Present Measurement			Total Upto Date		Remarks	
Qty.	Cost	Qty.	Rate	Amount	Qty	Cost		
		15	6047.00	90705.00	15	90705.00		
		53	893.00	47329.00	53	47329.00		
		297	7.50	2227.50	297	2227.50		
		1921	143.00	274703.00	1921	274703.00		
		1921	10.30	19786.30	1921	19786.30		
		10	5826.00	58260.00	10	58260.00		
		10	677.00	6770.00	10	6770.00		
		10	9915.00	99150.00	10	99150.00		
		10	132.00	1320.00	10	1320.00		
		13500	0.22	2970.00	13500	2970.00		
		59	70.00	4130.00	59	4130.00		
		10	263.00	2630.00	10	2630.00		
		10	7214.00	72140.00	10	72140.00		
		1497	30.00	44910.00	1497	44910.00		

15	Supplying and Fixing .....including all Hardware's etc. complete as per the standard technical specification of BESCOM 1.1 KV Pin Insulator	Nos
16	No. 8 Strain Insulator	Nos
17	Supply and fixing of .....cross arm including all Hardware's complete as per the standard technical specification of BESCOM. 2 Pin 45x45x5mm -510mm	Nos
18	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Nos
19	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.110 Watts	Nos
20	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm	Nos
21	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Mtrs
22	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps25kA.	Nos

Certificate: 1. Certify that theThe Above said Work has been carreidout satisfactorily

T.N. Bal
JE

Assistant Executive Engineer (Elec)
BBMP, Bangalore

For GANGA ENTERPRISES

Proprietor

		29	44.00	1276.00	29	1276.00		
		15	14.00	210.00	15	210.00		
		30	306.00	9180.00	30	9180.00		
		20	176.00	3520.00	20	3520.00		
		54	25621.79	1383576.66	54	1383576.66		
		15	1629.79	24446.85	15	24446.85		
		8	196.80	1574.40	8	1574.40		
		15	3026.12	45391.80	15	45391.80		
				2196206.51.		**2196206.51**		